

Cogswell & Harrison Certus rifle patent

PROVISIONAL SPECIFICATION.

Improvements in Rifles.

I, EDGAR HARRISON, Gun Manufacturer, of 29A, Gillingham Street, London, S. W., do hereby declare the nature of this invention to be as follows : -

My invention consists of certain improved mechanism in the construction of firearms.

To a single barrel is attached a shoe or body by means of an interrupted screw, and locked in position by means of a screw passing through the shoe into one of the lugs on the barrel.

Attached to the shoe are one or more rails, upon which travel the breech-block containing the lock, and at the front of the block is the bolt-head. The front of the bolt-head interlocks with the shoe by means of an interrupted screw.

Upon opening the gun, the striker is withdrawn from the cap of the cartridge by means of an inclined plane situated at the rear of the bolt-head. Near to the end of the travel of the breech-block, the ejector comes against the sear, and so throws out the empty shell: The bolt-head, which takes the explosive force of the cartridge, is attached to the breech-block by means of a transverse pin running in a groove.

The " safety" consists of a transverse spindle passing through the breech-block. The spindle traverses at one side the striker hole, and has a flat made thereon, so as to allow the striker to pass to and fro freely. The round part of the spindle is eccentric, so that, upon being turned about its axis, it not only passes in front of a part of the striker, but takes the striker from off the sear nose.

The rear sight is made of a convenient shaped piece of metal travelling up and down in a dovetailed slot cut into the breech-block.

For rifles of vary small calibre, the lug on the bolt-head may be made to engage in the rail.

The rails are so shaped as to maintain the lever open, except at the point of closing the breech.

COMPLETE SPECIFICATION.

Improvements in Rifles.

I, EDGAR GARRISON, Gun Manufacturer, of 29A, Gillingham Street, London, S.W., do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement : -

My invention consists of certain improved mechanism in the construction of firearms.

In the accompanying drawing

Fig. 1 is a plan view of a rifle constructed according to this invention

Fig. 2 is a partial longitudinal section.

Fig. 3 is an underside view of the breech-block and

Fig. 4 is a side view partly in section shewing the ejector device.

A is the barrel, the rear end of which is turned down and threaded and made with longitudinal grooves so as to constitute an interrupted screw. **B** is a shoe, which is correspondingly formed to receive the end of the barrel, which is secured to the shoe by making a quarter turn. The barrel is then locked in the shoe by means of the screw **C**.

Attached to the shoe **B** are one or more rails **D** which extend along the stock and upon these rails a breech-block **E** containing the lock is mounted and caused to travel by means of the handle **F** on the bolt head **G**. The bolt-head is formed with an interrupted screw which enters within the shoe and is locked therein by giving it a quarter turn.

H is the firing pin or striker, which is contained in the breech-block **E**. This striker is withdrawn from the cartridge when the gun is opened by means of the inclined plane **I** on the back of the bolt-head **G** which as the bolt-head is rotated by the handle acts on a collar on the striker. **J** is the extractor, which is situated at the side of the bolt-head.

When the breech-block is near the end of its stroke, a sliding piece **K** carried by the block see Figs. 3 & 4, strikes against the sear **L** and is thus held while the block continues its movement. This piece **K** carries a block or finger **a**, which acts on a pin **b** carried by the breech-block and forces it out with a jerk.

This pin strikes with some force on the rim of the empty cartridge shell, and throws it out to one side. These parts, **K a & b**, I term the ejector. The bolt head **G** is attached to the breech-block by means of a transverse pin **c**, which lies in a peripheral groove cut in the head.

In a recess **d** in the breech-block is pivoted a tumbler **e**, see Figs. 3 & 4, which, when the breech-block is drawn back rests on the top of the rail and enters a notch in the bolt-head so as to prevent the bolt-head from being rotated, while the gun is opened. When the gun is closed, this tumbler **c** enters a recess formed for it in the rail and the bolt head is then free to turn, to lock the head in the breech.

The safety consists of a transverse spindle **f**, passing through the breech-block and entering a notch **g** formed in the striker. This spindle has a notch **h** formed therein, which will allow the striker to pass, when desired, but when the spindle is rotated by a lever **j** on the end, the full part of the spindle enters the notch **g** in the striker and holds it securely until released by moving the lever back to its normal position.

The rounded part of this spindle is slightly eccentric so that when turned on its axis it will force the striker back sufficiently to take it off the sear **L**.

The rear sight **M** is made of a conveniently shaped piece of metal working in a dovetail groove cut in the rear end of the breech-block.